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AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1-14. (Canceled)

15. (Currently amended) ~~The projector according to claim 14~~ A projector comprising:
a storage device that stores a predetermined approximate expression for correcting a
projected image for distortion;
a calculator that performs a geometrical transformation for said projected image
emitted from said projector, in accordance with said predetermined approximate expression;
and
a receiver to receive a value for substitution as one of a parameter and a variable into
said predetermined approximate expression, wherein said value comprises a value entered by
a user using an input device, wherein said value comprises a value entered by a user using an
input device.

16. (Previously presented) The projector according to claim 15, wherein said value entered by said user comprises a numerical value entered through said input device.

17. (Previously presented) The projector according to claim 15, wherein said input device comprises a slide bar through which said user interacts to enter said value.

18. (Previously presented) The projector according to claim 17, wherein said slide bar comprises a slide bar located on one of:

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said projector; and

a graphical user interface (GUI) associated with a display device for said projector.

19. (Previously presented) The projector according to claim 15, wherein said input device comprises a graphical user interface (GUI) associated with a display device used for said projector.

20. (Currently amended) The projector according to claim ~~13~~ 15, wherein said predetermined approximate expression comprises one of an expression representative of:

a parabola;

a linear equation; and

a trigonometric function.

21-23. (Canceled)